**BER 345 Final Project Spring 2012**

**Accounts for: 20% of Final Grade, Worth 200 pts**

**Final Project Due: Tuesday, May 1st, 2:00 p.m.**

**Completed: Individually or in Group of 4 or less**

The Final Project affords students the opportunity to complete analysis of a set of data from design to final report (template p. 6 – 9).

The Final Project may be completed as an individual project or as a group project.

If you are working in a group, it is your responsibility to have contact information for each member (phone and email suggested). Dr. Surman will not provide this information due to privacy laws. Each group must choose 1 person to be the “Group Leader” who will be responsible for emailing any questions or concerns. YOU MUST COMMUNICATE AND WORK WITH EACH OTHER!!!!

**Part 1 Instructions**

1. Choose a Data Set based on your interests and the Article Lists (p. 3 – 5):
   1. Exercise 36 – Characteristics of Adolescent Male Gamblers
   2. Exercise 37 – Care-Seeking for Breast Cancer Symptoms
   3. Exercise 38 – Attitudes Toward Math, Math Achievement, and Expected Grades
2. Individual or Group Leader will email Dr. Surman the following information: **ONE EMAIL PER GROUP!!!!**  **DUE Monday, March 26th**. **You will lose 5 points if I receive more than 1 email from the group!! CC all Group Members!!** 
   1. First and Last Name – Names of All Group Members if participating in a Group
   2. Number and Name of the Data Set Chosen.
3. Based on the topic of your chosen data, research your topic so that you have a clear understanding of the topic you have selected.
   1. Do a general web review to learn what you can; make notes.
   2. Review the 5 articles for your topic using the Article Review Format below.
      1. **Article reviews will be submitted via elearning on April 11th by the Group Leader.**
4. Hypothesis Testing:
   1. Based on your data and research, you will be looking at relationships (correlation).
   2. Write at least 2 separate hypotheses.
5. Make arrangements to attend assigned final project workshop
   1. April 9th **Final Project Workshop: Correlation**
   2. Workshops will begin at 10:00 in Lloyd 16.
   3. **You must attend or you must have a documented, excused absence.**
      1. **You will lose 20 pts for failure to attend the workshop!**
         1. **For non-excused, non attendance.**

**Article Review Format**

For **each Article** answer the following **six questions**. As you answer the questions, be sure to mark in the text where you found the answers for reference for your final report. Answers may be just a word or two or may take a couple of sentences…no need for answers longer than that.

1. What is the sample size?
2. How was the sample described?
3. What is the study about?
4. How was the data collected? If any instrument was used, what was the name of the instrument and what does it specifically measure?
5. If an instrument was used, how was it administered? If no instrument was used, simply answer “No Instrument” for the question.
6. What were the findings of the study?

Please label the questions for each article clearly.

Name(s):

Article 1 Reference

1.

2.

3.

4.

5.

6.

Article 2 Reference

1.

2.

3.

Etc…

**Adolescent Gambling Choose 5 of the 7 Articles to Review**

**1. Selekman, Janice. "Gambling: Normal Adolescent Activity Or Pathologic Addiction?." Pediatric Nursing 34.4 (2008): 325-328.**

http://search.proquest.com.libdata.lib.ua.edu/docview/199444832/fulltextPDF/133581EE8CB79A131F7/10?accountid=14472

**2. Stan Puglies, et al. "Is Video-Game Playing A Risk Factor For Pathological Gambling In Australian Adolescents?." Journal Of Gambling Studies 25.3 (2009): 391-405.**

http://www.springerlink.com.libdata.lib.ua.edu/content/r1p231245612p222/fulltext.pdf

**3. Fong, Timothy W. "Pathological Gambling In Adolescents: No Longer Child's Play." Adolescent Psychiatry 29.(2005): 119-147.**

http://search.ebscohost.com.libdata.lib.ua.edu/login.aspx?direct=true&db=aph&AN=18809684&site=ehost-live

**4. Burge, Alesia N., Robert H. Pietrzak, and Nancy M. Petry. "Pre/Early Adolescent Onset Of Gambling And Psychosocial Problems In Treatment-Seeking Pathological Gamblers." Journal Of Gambling Studies 22.3 (2006): 263-274.**

http://www.springerlink.com.libdata.lib.ua.edu/content/p22q7267718r57x8/fulltext.pdf

**5. Rani A. Desai, et al. "Correlates Of At-Risk/Problem Internet Gambling In Adolescents." Journal Of The American Academy Of Child & Adolescent Psychiatry 50.2 (2011): 150-159.**

http://www.sciencedirect.com.libdata.lib.ua.edu/science?\_ob=MiamiImageURL&\_cid=279787&\_user=446476&\_pii=S0890856710008518&\_check=y&\_origin=browse&\_zone=rslt\_list\_item&\_coverDate=2011-02-28&wchp=dGLzVlV-zSkWb&md5=afe6b489d3d20e2ea27e6a821fed176f/1-s2.0-S0890856710008518-main.pdf

**6.McComb, Jennifer, and Catherine Sabiston. "Family Influences On Adolescent Gambling Behavior: A Review Of The Literature." Journal Of Gambling Studies 26.4 (2010): 503-520.**

http://www.springerlink.com.libdata.lib.ua.edu/content/u411k5q64712618r/fulltext.pdf

**7. John Paul Wright, et al. "Gender Differences In Genetic And Environmental Influences On Gambling: Results From A Sample Of Twins From The National Longitudinal Study Of Adolescent Health." Addiction 105.3 (2010): 536-542.**

http://search.ebscohost.com.libdata.lib.ua.edu/login.aspx?direct=true&db=aph&AN=47922812&site=ehost-live

8. **You may also select referred journal articles of your choice (up to 3).**

**Breast Cancer Care-Seeking Choose 5 of the 7 Articles to Review**

**1. Meechan, G. et.al., Delay in seeking medical care for self-detected breast symptoms in New Zealand women.** New Zealand Medical Journal v 115 no.1166 (November 22, 2002).

http://journal.nzma.org.nz/journal/115-1166/257/content.pdf

**2. O’Mahony, M., &Hegarty, J. (2009). Factors influencing women in seeking help from a health care professional on self discovery of a breast symptom, in an Irish context. Journal Of Clinical Nursing, 18(14), 2020-2029. doi:10.1111/j.1365-2702.2008.02564.x**

http://onlinelibrary.wiley.com.libdata.lib.ua.edu/doi/10.1111/j.1365-2702.2008.02564.x/pdf

**3. Salonen, P., Kellokumpu-Lehtinen, P., Tarkka, M., Koivisto, A., &Kaunonen, M. (2011). Changes in quality of life in patients with breast cancer. Journal Of Clinical Nursing, 20(1/2), 255-266. doi:10.1111/j.1365-2702.2010.03422.x**

http://onlinelibrary.wiley.com.libdata.lib.ua.edu/doi/10.1111/j.1365-2702.2010.03422.x/pdf

**4. Lyubomirsky, S., Kasri, F., Chang, O., & Chung, I. (2006). RUMINATIVE RESPONSE STYLES AND DELAY OF SEEKING DIAGNOSIS FOR BREAST CANCER SYMPTOMS. Journal Of Social & Clinical Psychology, 25(3), 276-304.**

http://search.ebscohost.com.libdata.lib.ua.edu/login.aspx?direct=true&db=aph&AN=20533503&site=ehost-live

**5. Andersen, M. (2011). Symptoms of Breast Cancer in an Age of Technologic Screening. Journal Of Women's Health (15409996), 20(8), 1129-1131. doi:10.1089/jwh.2011.2924**

http://search.ebscohost.com.libdata.lib.ua.edu/login.aspx?direct=true&db=aph&AN=64002335&site=ehost-live

**6.Beaver, K., Williamson, S., & Chalmers, K. (2010). Telephone follow-up after treatment for breast cancer: views and experiences of patients and specialist breast care nurses. Journal Of Clinical Nursing, 19(19/20), 2916-2924. doi:10.1111/j.1365-2702.2010.03197.x**

http://onlinelibrary.wiley.com.libdata.lib.ua.edu/doi/10.1111/j.1365-2702.2010.03197.x/pdf

**7. Mandelblatt, J. S., Stout, N., &Trentham-Dietz, A. (2011, July 5). To Screen or Not to Screen Women in Their 40s for Breast Cancer: Is Personalized Risk-Based Screening the Answer?.Annals of Internal Medicine.pp. 58-W14.**

http://search.ebscohost.com.libdata.lib.ua.edu/login.aspx?direct=true&db=aph&AN=62672290&site=ehost-live

8. **You may also select referred journal articles of your choice (up to 3).**

**Math Attitudes and Achievement Choose 5 of the 6 Articles to Review**

**1. Wei, M. H., et. al., Why do Taiwanese children excel at math?. Phi Delta Kappan v. 93 no. 1 (September 2011) p. 74-6**

http://vnweb.hwwilsonweb.com.libdata.lib.ua.edu/hww/jumpstart.jhtml?recid=0bc05f7a67b1790e8013f7f4109cf21aa09a46c3e9b626f8f72cd55237bb9886e48a1489f136265b&fmt=P

Wei, M. H., et. al., Why do Taiwanese children excel at math?. Phi Delta Kappan v. 93 no. 1 (September 2011) p. 74-6

**2. Adelson, J. L., et. al., Measuring the Mathematical Attitudes of Elementary Students: The Effects of a 4-Point or 5-Point Likert-Type Scale. Educational and Psychological Measurement v. 70 no. 5 (October 2010) p. 796-807**

http://epm.sagepub.com.libdata.lib.ua.edu/content/70/5/796.full.pdf+html

**3. Woodward, J., et. al., Meeting the Curricular Needs of Academically Low-Achieving Students in Middle Grade Mathematics. The Journal of Special Education v. 40 no. 3 (Fall 2006) p. 151-9**

http://vnweb.hwwilsonweb.com.libdata.lib.ua.edu/hww/jumpstart.jhtml?recid=0bc05f7a67b1790e8013f7f4109cf21a97beeb666b7a28a1e50231c5afabd778c01027a09308e808&fmt=P

Woodward, J., et. al., Meeting the Curricular Needs of Academically Low-Achieving Students in Middle Grade Mathematics. The Journal of Special Education v. 40 no. 3 (Fall 2006) p. 151-9

**4. Shotwell, T. A. (1999). Comparative analysis of business and non-business students' performances in financial accounting: Passing rates, interest and motivation in accounting, and attitudes toward reading and math. *College Student Journal*, *33*(2), 181.**

http://search.ebscohost.com.libdata.lib.ua.edu/login.aspx?direct=true&db=aph&AN=1984331&site=ehost-live

**5. Finney, S. J. and Schraw, G. (2003) “Self-efficacy beliefs in college statistics courses” Contemporary Educational Psychology, 28(2), p. 161-186.**

http://www.sciencedirect.com.libdata.lib.ua.edu/science?\_ob=MiamiImageURL&\_cid=272424&\_user=446476&\_pii=S0361476X02000152&\_check=y&\_origin=browse&\_coverDate=30-Apr-2003&view=c&wchp=dGLbVlV-zSkWz&md5=92fb3b57972d7783da3acd7d6ba4fd76/1-s2.0-S0361476X02000152-main.pdf

**6. Ma, X., et. al., Attitude toward self, social factors, and achievement in mathematics: a meta-analytic review. Educational Psychology Review v. 9 (June 1997) p. 89-120**

http://vnweb.hwwilsonweb.com.libdata.lib.ua.edu/hww/jumpstart.jhtml?recid=0bc05f7a67b1790e8013f7f4109cf21ae7e802f3294c101b58d85c754940f1296281251ae0e8b4a7&fmt=P

Ma, X., et. al., Attitude toward self, social factors, and achievement in mathematics: a meta-analytic review. Educational Psychology Review v. 9 (June 1997) p. 89-120

7. **You may also select referred journal articles of your choice (up to 3).**

# [Type Title]

*It is important that the title be both brief and descriptive of your research. Readers make quick decisions as to whether they are going to invest the time to read your article largely based on the title. The title should be short (generally 15 words or less) and clearly indicate what the study is about.*

[Type Authors1]

[Type 1Main Affiliations of Authors]

# Abstract

***In no more than 2 paragraphs, explain the purpose/rationale, methods, results, conclusions of the correlation or t-test study.***

*The abstract serves two major purposes: it helps a person decide whether to read the report, and it provides the reader with a framework for understanding the report if they decide to read it. Thus, your abstract should describe the most important aspects of the study within the word-limit provided by the journal. As appropriate for your research, try to include a statement of the problem, the people you studied, the dependent and independent variables, the instruments, the design, major findings, and conclusions.*

# Introduction & Brief Literature Review

***What is the aim of your study? What are you attempting to prove?***

***What is the background of the topic? Use your reviewed articles and your own web search to write***

*You will start your report with a paragraph presenting the investigated problem, the importance of the study, and an overview of your research strategy.*

*The introductory paragraph will be followed by a brief review of the literature. Show how your research builds on prior knowledge by presenting and evaluating what is already known about your research problem. Assume that the readers possess a broad knowledge of the field, but not the cited articles, books and papers. Discuss the findings of works that are pertinent to your specific issue. You will not need to elaborate on methods of previous research.*

*The goal of the introduction and literature review is to demonstrate "the logical continuity between previous and present work" (APA, 1994, p. 11). This does not mean you need to provide an exhaustive historical review. Analyze the relationships among the related studies instead of presenting a series of seemingly unrelated abstracts or annotations. The introduction should motivate the study. The reader should understand why the problem was researched and why the study represents a contribution to existing knowledge.*

# Materials and Methods

***Based on the description with the data set, what materials/methods were used to collect the data. Provide as much detail as you are able.***

*A description of your instruments, including all surveys, tests, questionnaires, interview forms, and other tools used to provide data, should appear in the materials subsection.*

## Subjects

***Who is the sample? How is the sample described in the data set description? Provide as much detail as you are able.***

*Describe your sample with sufficient detail so that it is clear what population(s) the sample represents. A discussion of how the sample was formed is needed for replicability and understanding your study.*

## Data analysis

***What statistics were computed? Why? What were you attempting to prove? What were your hypotheses?***

*Example: (You will duplicate this information for each hypothesis)*

*Hypothesis 1:*

*Null Hypothesis: There is no relationship between the height and weight of shells.*

*Alternative Hypothesis: There is a relationship between the height and weight of shells.*

*I conducted a correlation study. The alpha level threshold is set at 0.05. Using Excel, I calculated the appropriate statistic, r, the corresponding degrees of freedom, and the amount of variance explained.*

# Results

***What are the results of your statistical analysis?***

*Example: (You will duplicate this information for each hypothesis)*

*Results 1:*

*Using Excel, I conducted a correlation study with the following findings:*

*r(17) = 0.453, p < .05, r2 = 0.205*

*I reject the null hypothesis because the p value is lower than the threshold alpha. There is a significant, direct relationship between the height and weight of shells.*

*The prediction line for this relationship is ŷ= .273x + 1.45.*

*You will duplicate this information for each hypothesis*

# Discussion

***Summarize your findings. How would you interpret your findings for each hypothesis? State your conclusions and key points to take away from the study.***

*Discuss and interpret your data for the reader, tell the reader of the implications of your findings and make recommendations. Do not be afraid to state your opinions.*

*Many authors chose to begin the discussion section by highlighting key results. Return to the specific problem you investigated and tell the reader what you now think and why. Describe how your findings are similar or dissimilar to previous studies. Draw your conclusions, but be careful, however, not to over generalize your results. Your conclusions should be warranted by your study and your data and sample.*

# References

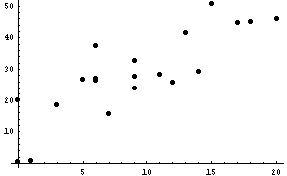
***Enter references here: Include all articles reviewed, the reference for the data set, and any other sources you used for your introduction.***

# Figures and Tables

***Enter at least one table or graph with pertinent statistical data. Be sure that each table or graph is properly labeled so that the purpose and interpretation is clear to the reader.***

*Scatterplot: Height- Weight*

*Height*

**

*Weight*